

# BRAZIL

## FEB 1986 —

- Pedreira animals update (no more food)
  - Pesagro animals update
  - view of Artibeus under Palm frond.
- 22 Feb. ?? arising from trapping + processing.  
What is a group? What is a territory?  
What % groups must be monog for monog. to be mating system.
- 24 Feb - Processing 19 animals @ 15/anim.
- 29 Feb - → Pesagro; observe.  
D&K + JMD discussion @ training,
- 2 March - The <sup>cur</sup> breakdown bore  
Nitoria,

7530-00-222-3521

FEDERAL SUPPLY SERVICE

(GPO)



Idimar / Jones begin

Pezagro / Pedreira obsw.

chrysomelas shipments (15 Feb)

Rita attacks (12 Feb)

Mata with Zigue (18 Feb)

Una chrysomelas (20 Feb)

Paco politics (3 Mar)  
problems  
Dionizio

Pol \$

Ecol \$

Rentro \$

Cons \$

Edu \$

People \$

Brazil

Feb 1986

exchange  
rate

~ 17,500 c3 =  
\$ 1.00

on 28 Feb 86

Brazil devalued &  
changed currency  
1,000 cruzeiros became  
1.00 cruzado

17,500 cruzeiros = 17.5  
cruzados.



FRI

14 Feb 1986-

Cells owned by

- Student for March 1986

- BCN - various problems

- Zoo

- Coimbra

- Delgado 1300

increasing Reserve  
how

Diogenes in Reserve

- Berant

- M<sup>a</sup> Teresa?

- PESAGRO - Nitrois

Vicosa

São Roque

A couple with 4  
children which we never see.

→ Jairo & ~~Edmar~~ Idimar  
(pronounced like  
Edmar)



1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



FR1

14 Feb 1986 -

arrive Rio de Janeiro @ 11:00 hrs.  
Time difference 3 hrs later  
than DC. Plane only 1/2 full.

at airport Domingos + wife  
Herci with kids Bruno +

Priscilla (?) — Beth  
Laurenz Pinder. Also

Beth's mother + sister (leaving  
after Carnival). Also Andrea +  
Norma; two S.J. women.

Went straight back to Reserva.

Stopped at Silva Jardim  
to leave off Andrea + Norma +  
ended up with flat tires.

In fact all the Kombi  
tires are near bald from  
the Reserve's rocky pebbly roads  
+ the asphalt of BR 101.

At Reserve are Zigue  
and the new ~~couple~~ couple  
to replace Elpidio + Lurinha  
(Tribinha) —

A couple with several  
children which we never see.

→ Jairo & ~~Edmar~~ Idimar  
(pronounced like  
Edmar)



14 Feb

FRI

Beth overweight and young altho Ray  
look about 10-15 years older (in  
size) than probable age.

By the time we get settled in,  
I'm exhausted + rest twice before  
dinner.

Meanwhile I discuss with  
Inez her application to Jersey +  
Maryland. Laurence indicates  
that he applied to Colorado,  
Florida + Oklahoma, but didn't  
have time to apply to George  
Mason.

All had gone to Zool. Conference  
& had just returned a week ago,  
Saturday before Carnival  
(today's day). Conf. not as good  
as previous year with  
few primatologists present  
(No primatol. congress).  
Conf. in Mato Grosso, Cuiabá.

OLT project had talks by  
Inez on Centro; Laurence foraging  
by OLTs; Beth on educ. project.



promoted talk by Ricardo + Elena.

Re: animals:

GLTs in Pedreira:

(A) They haven't seen Ron, #9, + Rita since 31 January.

Rita ~~has~~ attacked Zigue in mid-Jan. They estimate that her young were born ~ 6 Jan.

(B) Pandora + Micueca were copulating about one week before she aborted. Data indicate that she aborted @ 129 d. after introduction, but main copulatory activity began about 1 week after introd. ∴ abortion was full- or nearly full-term. No sign of fetus.

About one week after abortion Aphrodite started hanging

out with Micueca + scent marking a lot. Not clear what is happening (Pandora weight on 15 Feb is 540 compared with Aphrodite + Micueca over 600. Young "Z" whose first birthday is 15 Feb (amanha) weighs @ 470g.

May be that Pandora is failing. Note: Inês indicates that they are no longer supplementing. The animals in the Pedreira.

GLTs in Pesagro:

Are still being supplemented on alternate days. Recently fruit availability has decreased and N.O. group is eating most of provisioned food. Wick. only eating about 1/2.

In Nov. — Feb.

(a) Group are having encounters

14 FEB  
FRI



almost every day - seeking each other out between 0900 - 1100 hours. Encounters involve lots of running but no serious aggression.

(B) Copps:

No births except Maria; eldest ♀ of Wick group copulated with Larcelot & Prometheus of N.O. group. Jodie; has copulated with her brothers; Juan & Pepe.

Limited copulatory activity in N.O. group.

(C) Encounters & tree holes:

Wichita was only natural den holes now since their original box is inhabited by bees. (They have smoked out the bees several times).

Assistants don't know where they are sleeping since they get

14 Feb  
FRI

to study area too late & leave too early.

Encounters are very ritualistic & similar to those of wild tamarins.

Carlos group

Laurenz recently trapped them. There are <sup>at least 2</sup> ~~at least 2~~ litters [four young].

Weights ~ 290 290 237 270

which don't correlate particularly well with body size. However, there are probably 2 litters of 2.

Laurenz also caught <sup>the</sup> 1 ♀ 10<sup>+</sup>, 1 SA ♀ (from last year), and saw a 4<sup>th</sup> animal <sup>missing</sup> ~~missing~~ <sup>either</sup> ~~the~~ 2nd adult ♂ <sup>or</sup> ~~the~~ 2nd ♀. NOT

Clear whether latter had died, disappeared, or just temporarily missing, nor which animal was gone.

The untrapped animals apparently wanted to get to trapped young; so it may well



have been the other  
lactating female. The  
young were however  
independently locomoting  
& might be close to  
weaning. (More likely the  
♂ rather than The ♀  
disappeared).

There is a young ♀ GLT at  
The PdA Lab. She was  
confiscated in Casimiro during  
the previous weeks. Had  
entered a home after some  
forest was cut.

Forest is still getting cut along  
BR 101 in the fazendas.

14 Feb  
FRT

General complaints by Beth &  
Laurel.

① Dionizio has barely been  
to Reserva — in States for  
5 weeks; Belgium for 8  
days and on holiday the  
whole month of January.  
Also there is a new Delegado  
for Rio & Dionizio is 2nd  
in command in Rio which  
means > time in Rio.

② Guards have not been to  
Reserve for a long  
period. IBDF has been  
building a Reserve head-  
quarters on 104 & it may  
be that the guards stay  
there. But they have been  
doing little patrolling of  
the Reserva since  
the Dietz left. Thus several  
farmers who want to donate  
"mata" to a Reserve status  
haven't been able to get  
the paperwork done.



15 Feb  
SAT

15 February 86

Off to Pesagro in AM with  
Onéz + Jim. Near gate see 3 or  
4 GLTs West of Gate inside P dA.

- ① ~~El~~ Elsein has one Kombi  
+ brings field assistants  
to field site from Silva  
Jardim about when we  
arrive (0900) — Too late —  
or at least not staggered.

We need observers early +  
late!

- ② Pesagro (like REBIO P dA)  
is spotless. Everyone has  
spent time cleaning.

- ③ We get out to field @  
0930 + meet pretty  
quickly with Wichita  
group. They locomote  
well but jerkily, especially  
Juan with  $\frac{1}{2}$  tail.

Maria, the eldest, has the



collar + still hangs out  
separate from the group.

Pepe + Jackie seen eating a  
purplish fruit about size of  
a grape. Accompanied by  
lots of good chirps but  
little food sharing. Juan  
finds and eats ~~a~~ a land  
snail — size of a  
large grape or thumb.

Again accompanied by  
food chirps. Juan's first  
feeding bout that I see is  
with remains of an orange  
supplemented.

All animals look excellent  
with good color.

Jackie ✓  
Maria radio  
Pepe

They also tear up + eat bromeliad  
leaves! But no twigs.

15 Feb.

SAT

We find Elizen looking for  
NO but unable to locate because  
(for 1st in 2 1/2 years) The  
Nikad batteries from the  
receiver had gone dead.  
With receiver working, we find  
group —

Conclude that they had  
already had their encounter with  
which were proceeding onto  
business. No one sure where  
they sleep but both groups have  
overlapping territories.

Butterscotch the older ♀,  
is moving on the ground lots.  
Apparently this is her 2nd day  
like this. Her eyes look bad  
although she has no diarrhea +  
except for wetness, her coat looks  
good.

Hera — ✓  
Venus — radio ✓  
Lancelot — radio 0  
Prometheus —  
Butterscotch —



On way back to Reserva purchase  
2 new tires since both front  
tires are bald — and  
dangerous. As we drive  
thru Reserva meet w/ Zigue.  
Elpidio + Otavio have just  
arrived to help out ~~with~~.  
As usual Elpidio melts into  
the walls, while Otavio  
is friendly + outgoing.

15 Feb  
SAT

After returning to REBO  
Dionizio Herci + kids are  
present + churrasco is in  
making. Discuss some business.

① BERANT: Had some deaths, fired  
1/2 his staff + turned over  
ALL Leontogutheas to IBDF.  
Only one chrysomelas remained  
which went to São Paulo with  
6 GLTs. 4 other GLTs  
went to Coimbra. NZP #5  
we think went to São Paulo.

• São Paulo, Rio, CRRT have  
considerable numbers of GLTs  
+ São Paulo + Coimbra  
have many chrysomelas.

② Chrysomelas: There is nothing  
now stopping the  
shipment of chrysomelas  
to the States. Dionizio has  
been given responsibility  
for their distribution +  
transport by the new



15 Feb  
SAT

President of IBDF. <sup>may be</sup> Note:  
IBDF no longer <sup>under</sup> Ministry  
of Agriculture but may be moved  
to ~~off~~ Environment (SEMA)

Dionizio wants to send the 16  
Belgian animals + 4 of  
Combras. Coimbra now has  
many. Four animals <sup>may</sup> ~~be~~ not  
in pairs.

Dionizio indicated that Corten was  
retiring + his son taking over.  
Apparently the Belgian animals  
were kept in one (!) cage  
which was so dark + cold  
that they had one hour of light  
per day. Dionizio thinks we  
need to find them another home  
+ even recommends that  
England buy them. Dionizio  
mentioned that Brazilian  
govt thru WWF Belgium  
paid \$ 5,000 for animals.

Our schedule (projected)

Days 1-3 - PdA -

Day 4-6 - Rio Barant Coimbra  
IBDF Rio Zoo

New Delegado in Rio IBDF office  
+ new Director of Rio Zoo.

Day 7-17 Trapping

Day 18-21 Biorbia IBDF; Zoo;  
Milton Thiago and

a stop in Belo Horizonte  
to see Bastos + Celio Vale  
(recommended by Russ Mittermeier).  
Dinner with Dionizio before airport -

Thoughts: Perago animals look  
excellent + it's amazing that  
they are <sup>all</sup> still alive + look good.

Perhaps <sup>①</sup> August is a better  
release time than May.

Certainly <sup>②</sup> releasing in family  
groups is preferable to  
pairs.

<sup>③</sup> Surprised that no wild tamarins  
have encountered our groups



in Prague.

Locomotion:

Energetics:

would be two interesting studies. Have Teel Grand film released vs. wild animals. Could he fund it?

Have Steve Thompson do BMRs on Tamarins + marmosets at NIH. Then try GLTs in NZP + REBO PdA.

Need to set stage for studies of  
① Speothos, Giant otter, Pteronura,

② Brazil tour

③ GLT studies in Una.

④ Zoo cooperative ventures.

⑤ Zoo control - Marleni no longer looking at captive breeding + maintenance of endangered species.

16 Feb.

SUNDAY

16 Feb 86

Out to Pedreira area in AM with Jim, Inez, Zeke + Andrea.

To observe Micuca group + try to find Group 1.

Micuca group found very soon near rear entrance to Pedreira area.

Pandora looks thin - + moves more slowly - Apparently she has not been locomoting well + her fur looks a bit ragged.

Z - The yearling (B'day 15 Feb 85) born to Vera + Micuca - looks very well; with a golden woolly coat and lots of energy.

Aphrodite seen scent-marking a lot while Inez



16 Feb

SUND

said she started after Pandora  
apparently aborted.

~~There~~

No sign (obvious) of  
pair bond between Mucaca +  
Pandora.

Mc. behavior very similar  
to always. The strong silent  
type. Often ~~off~~ on the  
groups periphery, but  
always the leader!

A good tamarin.

Jim + I took lots of pictures,  
feeding on fruits & micromanip.  
and completely disturbed  
observations.

Then left + went slogging  
thru Pedreira looking for.

Group #1 - Ron, Rita + 2 kids.  
Ended up at Viveiro #2

location where they have  
retained platform for baiting.  
Left some bananas but no  
animal sign.



16 Feb

Sunday

Went as far as Viveiro #1 location — which had grown back considerably. Couldn't find the nest box nor the original trees on which the nb hung although the area was still recognizable. It was eerie — because so much more emotional effort had gone into Viv. #1 animals (Kings Island) and there the ~~site~~ site was abandoned. Reminded me of an abandoned Maya pyramid ~~which~~ whose purpose couldn't be recreated because not enough evidence about function.

Slogged back to car from break + had lunch.

Group #1 apparently hasn't been fed for over a year and hasn't been

seen since mid-January + before that not often since no radios are working and they are harder to locate (than Micuea (#9 still holds a transmitter)).

They are hard to trap so that it's nearly impossible to work <sup>them</sup> up + keep marks organized.

After lunch — Jim ~~works~~ works with Laurensz; I work on AAZPA paper.

For dinner maracujá batidas; great rice + ~~feijão~~ Feijão (beans), and I work on making choc. chip cookies.

Elpidio + Otavio eat with us, but Elpidio won't eat until Lon Ann fills his plate.

Young woman from Viosa, Christina,



met

16 Feb

SUND.

majoring in biology has shown up  
and is very loud + talkative,  
often laughing loudly at her  
own stories while others just  
smile. She seems to little understand  
staying quiet enough to interact  
in acceptable ways. But  
Jim said everyone from her region  
is that way. There is apparently  
one story she tells about her  
father drinking her mother's  
breast milk that shocks most of  
the PdA crew, despite their  
sophistication.

In any case she is Laurenz'  
Inez exal's responsibility.

I think Jim + I drank  
a little, a little later.  
He, wolfing down wild Turkey —  
I finished off a bottle of  
Glenfiddich —  
not much left.



17 Feb

Mon.

17 Feb 86

Went out with Zeke 1st thing  
to try to locate Rita + Ron + #9  
+ kids.

Haven't been seen since 31 Jan  
@ when Zeke was bitten by Rita.

We slog thru Breja + Zeke finds  
them easily at Viveiro #2  
location. @ 1000 hours.

Rita + #9 approach w/in  
about 20-25 m, both w/ mobbing call.  
Rita more closely. (#9 with radio).

Zeke holds back. I begin  
talking + periodically approach,  
but especially retreat when  
she begins to move towards me.

I see animal in background  
carrying infants; later we  
determine that there are still  
two.

Rita produces rapid cluck wh/  
is incredibly harsh + rapid  
+ aggressive sounding.  
Also periodically arches + AW.



The ~~so~~ vocalization sounds more powerful than any I'd heard. And it was so clearly aggressive & different from mobbing.

Zeke indicated that she would produce sound when agitated, when 1st seeing you, but she was generally quiet when she finally advanced to attack.

Rita clearly moving between us and Ron with infants.

Later Zeke & I realize she may also have been aggressive since she was protecting the urveiro platform "food source" of bananas.

Aggression not just due to site & babies since she had attacked Andrea at another site while pregnant.

17 Feb  
MON

At one point she advanced in trees & Zeke & I retreated.

Eventually we retreated 3 times; The last two times when she approached, she was totally quiet & moving very quietly & deliberately close to the ground. She came w/in 2 m of me on the ground before turning back. ~~she~~ carried a heavy stick, but was actually nervous — she had no fear of humans, had successfully attacked before. Could happily do so again.

My strategy was ① to speak normally & move around  
② to try not to retreat at all her advances (don't reinforce aggression)  
③ scream at her if she advanced too closely (noise instead of force)

My strategy didn't work well on DAY 1.



17 Feb.

MON

Both infants heard rapping:  
seen locomoting independently.  
Both ~~on~~ <sup>Inf.</sup> on Ron: Then one  
on Ron; one on #9. ~~but~~

Later when we returned after a  
retreat, Rita was nursing one of  
the two + tried to push it off  
as soon as she saw us. But  
she wouldn't approach while still  
carrying the infant. And was careful  
when trying to push infant off.

Both infants seen in locomotor  
play: adults huddling on  
branches with Inf. running  
back + forth. ♂♂ very  
comfortable with each other.  
Hard to say which ♂ is dominant  
or the mate — if only one —  
since no evidence of favored  
relationship between Rita + one of  
two males. Both ♂♂ seen <sup>allo-</sup>grooming during  
huddle.

Rita arching; mob calling; +  
scent marking (several) all  
at same time.



Infants are maintained @  
40 m distance with Rita  
usually between us + Mom.

Eventually Rita runs us off.  
We're with the group about  
2 hours at same location.

During Pedreira walk,  
we hear howlers. Zeke  
sees/hears pig (in fact  
lots of pig tracks) and I  
photograph a tree ~~snake~~ snake  
sitting on branch over the  
trail.

We walk  
Back to house — have  
lunch.

Zeke says They often see Cebus.

17 Feb 86

MON

Talk with Dionizio after lunch  
re:

① GLT shipment to LA; NZP  
and Intern. M.C. role.

He decides that he wants all  
20 animals to <sup>go</sup> thru on NZP  
permit as NZP responsibility  
regardless of final destination.

Dutz explains loans, records  
problems, breeding agreements  
with IBDF from GLTs + what a  
mess it was.

I realize that I am explaining  
a set of processes + approaches +  
agreements made with other  
people which Dionizio, as head  
of Poco das Antas, wasn't aware of.

Later he chides Lou Ann Jim + me  
that the Rio Delegado didn't  
have

- ① a GLT Handbook
- ② The Projects budgets or
- ③ Progress reports.



We had visited Olsen to try to find our budget thru FBCN, but could only get info. on WWF budget. <sup>new</sup> The Pressure was from the Rio Delegado who ~~wanted~~ thought rightly that Dionizio should know

- ① what we were doing and
- ② how much at cost.

Dionizio plans to visit Brasília with us and warned us not to speak of Maria Teresa Jordan.

Start fresh — anew — forget old organization.

Had huge dinner, including bromeliad couple Ricardo + Elena who now are married + live in Silva Jardim.

Then watch video of NGS special on Chesapeake. at center

2 + LA Dietz, Oak, Lawrence, Inez Zeke Betz Christina Ricardo Elena

18 Feb 86  
TUES

18 Feb 86

0800 hrs

Go out to Carlos area to try to find Carlos group — apparently now with 2 ♀♀, 2 litters, 1 SA ♀, 1 ♂. On last trapping + count, one male was missing.

As we enter into mata, heard GLT long call from Portense area [0815 hrs]

Waited / no encounter — Started into mata area; another GLT call.

Back out, waited; never saw these animals

Took main krepu circular trail. Hit bait platform. ~~Zeke~~ Zeke + I want a bit + then decide to not sit but to move. We backtrack + begin climbing. Walk for about another 3 hours all thru Carlos sandy area, but never see or hear GLTs.



18 Feb 56  
TUES

At one point Zeke is nervous  
that we are lost. Neither of us  
know the area well, ~~but~~ and the  
map has topographic but no  
vegetation features. Fortunately,  
we tend to agree on where we are  
and on the general direction for  
movement. ~~After~~ About 11:30  
we actually emerge close to  
where we entered.

We were either lucky or smart!

1038 hrs. I see a phyllostomid  
(artibeus or larger) hanging alone  
from a palm frond\*. Looks  
extremely heavy. Possibly gravid ♀.  
I take several shots with flash.  
Bat flies away after 2nd or 3rd flash.

\* not a spiny palm and @  
2 1/2 m off the ground.

My first bat as well as Zeke's 1st  
observation of "murcelego"  
"na mata"



18 Feb 86  
TUES

At another point we approach near bee's nest, but Zeke very worried + we back off and circle round.

In PM I worked on AAZPA Long Range Planning Comments. Evening we watch video of Carnaval from Rio in 1984/1985, each of the schools.

I finally begin to understand the complexities of the competition between each of the samba schools + the money + people involved.

You are seeing the expenditure of \$30-\$40 million dollars in time, costumes + floats by Brazilians in the Rio schools alone.

Competition is on ~ 10 factors, including costumes, theme, dancing, music + lyrics, organization etc.

And they all file past at the



huge stadium ~~is~~ in Rio.

The whole carnaval in Rio seems terribly tame + organized now, compared with what used to be when the samba schools didn't compete formally + simply danced thru the street.

19 Feb 86  
WED ~~THU~~

19 Feb 86

Wake up and spend major part of day with diarrhea, vomiting, etc.

Jim + I were due to go to CPRJ to see GHLT, but we only end up going to Rio late P.M. since I can barely move.

The "Revenge" is interesting because the diarrhea is limited. I have no energy; pass out when I stand; and vomit up ~~a~~ what I eat.

I have chicken soup at Novo Mundo in evening and sleep again until 0700 hrs.

Basically I sleep almost non-stop from

12 Midnite ~~1200~~ 19/20 Feb  
to

0800 hours 21 Feb - ~ 32 hrs.



20 Feb 86  
THURS.

20 Feb 86 -

Diarrhea in AM, but I decide to see how things go since I didn't vomit dinner and held breakfast. Also I felt less totally weak.

First stop Rio Zoo at 09<sup>00</sup>.

Visited with

new director - began 1 Jan  
Architect:

Paulo Celso Martins Brandão  
Also present was curator/anim. mgmt/  
vet. I interested in herpetology.  
I had met her before [blonde: stocky]

Carmen Lucia da Silva  
home: Rua Professor Gabizo 29  
Rio de Janeiro RJ CEP 20271

Carmen eventually expressed interest in turtle taxonomy  
\* lizard \* turtle reprod. &  
artificial reproduction incubation.



Carmen hoped that she could get help with pond turtle taxonomy and thought she might want to try to apply for some support to visit U.S.

First part of visit included.

- ① J + LAD + Oak
- ② Deonizjo
- ③ Paulo - Director
- ④ Carmen -
- ⑤ ♀ veterinarian - don't remember her name.

~~Explained to J + LAD + Oak~~

We explained GLT project in all ramifications and expressed interest in collaboration.

Paulo interested in everything, but decisions to be made.

20 Feb 86

Thurs.

Paulo new at Rio Zoo; 1st priority straightening out the financial situation. Zoo has just become a Foundation & will probably take over concessions to make \$.

To date, all \$ from Rio city govt & all profits returned to city coffers to be distributed.

Rio Zoo apparently has staff @ 100; half of staff @ 8-10 years ago. So Paulo is

- ① reorganizing structure
- ② hiring
- ③ getting financial condition straightened out.

seems more interested in educational programs vs. animal management although Jim + Lou Ann steered conversation to that end.

He indicates that zoo may get 35,000 people on a Sunday and averages 250,000 / month

Given its small size, it's a huge



20 Feb 86  
Thurs.

burden and on crowded days is probably a problem for people + animals.

He has small auditoriums: wants to develop audio-visual program using slides, film, video. Although no one can imagine how he will control access when he has a 20,000 visitor day.

I suggest — charge more on weekends and have free days during week.

During our visit; the following groups of people come in

- ① The Hd (?) of Parks + Recreation Dept — over the zoo.
- ② A group of ~~two~~ reporters + photographers from ~~Rio de Janeiro~~ ~~Journal de Brasil~~ to do story on The Jefe.
- ③ The Director of the Zoo in Recife
- ④ The new Education Specialist for the Zoo — a man with a degree in history + minimal teaching experience.

Director Recife Zoo [In position  
~ 3 years]  
Mauricio Jorge Cavalcanti de Sá  
Horto Zoológico de Dois Irmãos  
Praça de Dois Irmãos S/N  
Recife PE CEP 50,000  
Telefone  
081-268-1354



20 Feb 86  
Thurs.

Zoo Rio has about 2000 specimens

One pair of pale, small GLTs  
[arrived after being confiscated]  
about 8-12 mos. ago.

They look a bit stunted, but  
pelage is good altho pale.

They are housed off-exhibit;  
~~one~~ in wire + wood cages  
attached to cages housing  
marmosets and a group of  
squirrel monkey, one cage  
removed.

They are feeding them on a  
wide variety of fruit, but  
probably little protein.

Paulo had made a trip to CPRJ  
with his staff. They felt that  
Coulbra was over vitaminizing  
his animals

Everyone at zoo smoking like  
chimneys.



20 Feb 86  
Thurs.

Note: RE: BERANT

Beranto animals have all  
been dispersed

1 ♂ Chrysomelas

2.2 Rosalia (including NZP ♂ #5)  
have gone to CPRJ

All others; both Rosalia + Chrysomelas  
have gone to São Paulo.

Check numbers with Dietz.

J. LA. + I  
After zoo, visited FBCN -  
(I downed a pizza + beer  
with surprise)

Saw Almirante Ibsen @ 1330  
discussed many topics:

① Discussed Changes at IBDF.

② Maria Teresa at CESP, but  
only as administrator. No  
conservation activities.

③ The dust has yet to settle  
Ibsen thinks that IBDF  
will



New Pres. IBDF  
João Deoclecio Pierin  
Siqueira

~~Director~~

Address: phone  
Jordan Wellauer  
SQS 102-C-607  
Brasília  
Telephone: 226-2602

20 Feb 86

Thurs.

move to SEMA under Nogueira  
Neto before too long.  
Unfortunately, SEMA has much  
less money than Agricultura,  
and much of IBDF money is  
from forestry and not parks &  
reserves.

③ ~~The~~ Turnover derived from  
a "plot" apparently involving  
M. T. and Jordan (may have  
been ung leaders) to unseat  
previous IBDF President.  
They succeeded, but the day  
before he left office, he  
moved every department  
head & every person associated  
with the "plot" out of office.  
Downgraded their positions.

④ New <sup>President</sup> ~~director~~ of IBDF is  
friend of Osório & Osório  
made appt with him for  
us on 3 Mar.

⑤ While in Osório's office, he  
heard that Jordan had been given new  
position as "Special Assistant" to  
PRES. IBDF. The fallen rise!



20 Feb 86

Thurs.

(1) New Pres. IBDF is economist & good friend of Nogueira Neto's.

New lead of DN - also economist.

Isen recommends that we speak to them both about expanding the P d A Reserve.

(2) Poco das Antas

Discussed potential for expanding Reserve size.

According to Lou Ann, Souza Cruz (Philip Morris) or

~~Roberto Marinho Ids.~~ are

interested in donating a lot of money to the Reserve \* & one way would be by helping to ~~expand~~ add a chunk of land to the Reserve. However, ~~the~~ govt.

cannot disappropriate land & pay for it with a private donation since all donations to govt go into general coffers. Can't be focussed or directed.

\* actually they want to donate to GLT conservation, initially

\* donation actually to CPRJ but it is being suggested that they donate to Reserve.



20 Feb 86

Thurs.

Jim + LA both know of several pieces of land adjacent to REBIO that have some forest & would help. But looks complicated.

(3) Una + Chrysomelas

(a) Jim tried ~~various~~ several times to get answer to some hard questions about future research in Una from Ibsen + Ibsen either didn't understand or avoided. Jim said we'd been invited to work in Una but that 2 other groups had plans (1) Celio Vale, Mittermeier, Rylands, et UFMG and (2) Langguth + Carmen Alonzo)

(Ibsen kept referring back to problems with chrysopygus trapping operation at Morro do Diabo where state + feds. had clashed + state had refused feds. permission to collect animals from area to be flooded (6 were collected by Lauring Pinder) (30 more were supposed to be collected

(state rep. Cory Carvalho)

Animals supposed to go to CPRJ.

before deforestation began in 2 weeks.

Sao Paulo state agency refusing permission since Morro do Diabo is state park.



20 Feb 86

Thurs.

Ibsen suggested that similar problem wouldn't exist at UNA, but refused to respond to questions of control of programs. He did suggest that a common plan be developed where everyone knew everyone else's intent.

At the moment, there was no research in UNA.

(b) Squatters have begun to be removed.

(c) Ibsen suggested Celio Vale for Internat. N.C. for chrysomelae + suggested waiting on Jordan Wallauer + M.T. participation.

(4) Ibsen mentioned a "Society for Protection of Pantanal" developed by Mato Grosso farmers for conservation efforts. Suggests such an approach + effort might work at RJ state.



⑤ There have been many more  
muriqui sightings lately.  
Dietz says he's not surprised

⑥ Pantanal: I discuss future  
potential research with Ibsen.

- a) Speothos - in Amazon; he  
has no info.
- b) Pteronura are beginning to  
be seen more commonly in  
Pantanal. There is a physician  
studying them on private  
ranches & Ibsen thinks I  
could get info. re: study sites  
from him.

Recommendation: I write Ibsen  
2-3 mo before visit. & he  
will try to arrange some visits  
to some sites in Mato Grosso.  
He suggests that private fazendas  
may be better than nat'l.  
parks.

Physician's address may be  
available through Farmers  
Assoc for Protection of Pantanal.

20 Feb 86  
Thurs.

We also asked Ibsen for help  
with names of students &  
what was happening at zoo Rio.  
For the latter, he suggested waiting  
until we are just settled.

LAD then spent some time on  
vacts. with FBCN Acct. by which  
time we were almost late for  
IBDF appt. so FBCN lent  
him some horrendous amt.  
of money.

To Dionizio's office:

① He did letter for FONZ  
tour.

② We (hah!) told him  
about Jordan's meteoric  
rise.

③ Visited with Rio delegate

NEW DELEGADO: RIO

Luis Toledo  
(Dionizio's boss)



20 Feb 86

Thurs.

Jim expected great story silences,  
but The Delegado ended up having  
his own agenda.

Man @ 38-42 years. A banker  
or economist. Looks very  
organized & a good manager. Has  
made Dionigio 2nd in command of  
office.

Jim + LAD talk about expanding  
Reserve & need to push ahead.

Thank Delegado for support &  
specially congratulate Dionigio  
on his work & recommend that  
he needs to spend more time  
in Reserve.

[Dionigio has barely been in  
PdA since October since

- a.) FWS course was @ 6-8 weeks  
Oct/Nov
- b.) he went to Belgium
- c.) he was off whole month  
January.

Delegado's agenda was mainly what



to <sup>do</sup> about the Tijuca Park Rehab.  
Ctr. (Triage — they go to 300  
— " " " wild  
— " die)

They have had lots of criticism.

Delegado had several committees  
look & advise & most had  
different recommendations.

Combra recommends construct<sup>n</sup>  
far from Rio because of potential  
zoonoses (animal disease →  
humans). He was worried  
about yellow fever & malaria.

Others say stay in city, but move  
to over federal land.

I offer NZP help & advice whenever  
he wants it; but he needs  
to know what he wants from  
us.

20 Feb 86

Thurs

We recommend developing  
educational materials about problems of  
rehabilitation.

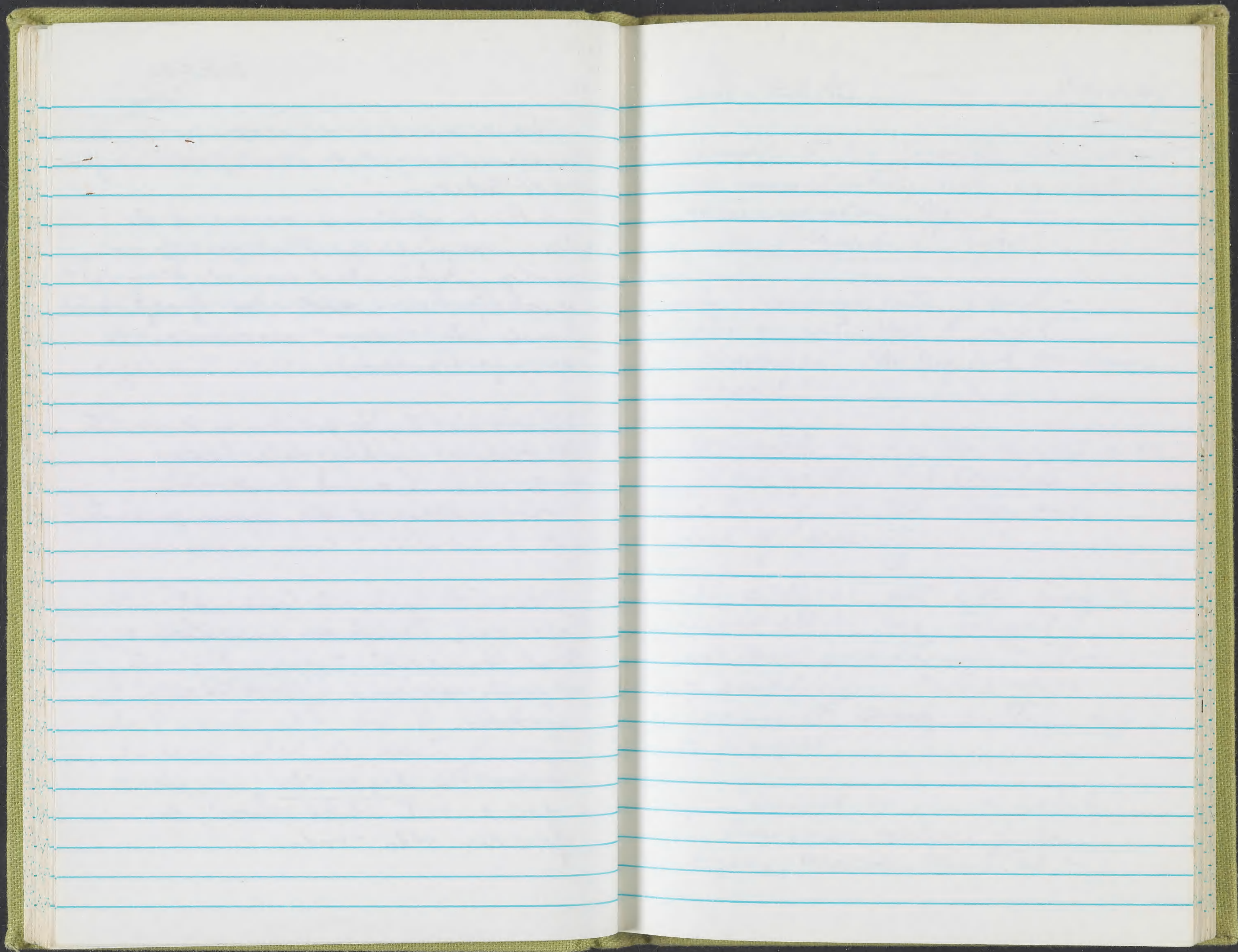
I think we also recommend 2  
sites; one, a quarantine for  
newly confiscated animals [at any site] +  
second, an exhibit area of confiscated  
animals with a major conservation  
message [in town].

We will also try to put him in touch with  
the National Wildlife Rehabilitators  
in the U.S. (or at least the  
vets working at the Tijuca quarantine  
site).

We run to dinner with Combra at  
Restaurante Plataforma in Leblon.  
Good Churrasco + apparently with  
a good expensive floor show  
upstairs.

Discuss the chrysomelids; my plans  
for a GLT edited volume; a  
few other odds & ends.







21 Feb 86

FRIDAY

Straight to Rio Consulate where we  
are immediately hit by new  
Administrative Office —

Mr. Everard Taylor

who runs us into ground -  
Who are we? How do we get  
clearance? How long have we been  
around?

Apparently, he has been brought in to  
clear up the Rio Consulate  
in terms of wasted money and  
lack of security.

He grills us, but acts busy +  
worried all the time. Schizoid  
with some friendliness + 'lots  
of hostility'. Writing memos;  
aggressively ~~being~~ putting stuff  
on the spot.

Jim sums it up — an asshole.

Our later analysis of his  
bizarre behavior resulted in



21 Feb 86

FRI

several thoughts.

① We had high security clearance, but only I had a red passport.

② ~~He~~ He had spent lots of time in Brazil and had a Brazilian wife, but got pissed when Jim spoke of his experience in Brazil.

③ He wanted to use ~~us~~ as an example / model of how a terrorist ~~galb~~ thru the cracks. And wanted to terrorize his staff.

We finally got out + LA and I managed to make some phone calls in a telefonista below IBDF.

[Digression: Making telephone calls is the biggest time waster of anything. Finding phones + getting on them. We needed to call Elza Swaget; Berant; Milton Thiago; Judith Block; Bastos, Celio Valle; and managed to get to Milton + Elza to leave messages].

Left for CPRJ @ 11<sup>30</sup> hours + arrived about 13<sup>15</sup>. Coimbra due to leave at 14<sup>00</sup>. We start talking fast

I spent the whole drive out trying to organize chrysomelas ~~was~~

① Exchange gifts.

② Is he interested in would he support Dnêz working for her MS at CPRJ — YES

③ Claudio Padua: He's really angry at C.P. and Russ M. for deciding to send Claudio to Gainesville. Says he's had a very difficult year, with CPRJ almost folding + his health suffering.

④ FONZ tour: Wants to think it over but sounds as though he might agree but only if M, W, or F. visit.

⑤ Doesn't want to co-author with Maria Teresa — Says she used to be nice but is now very arrogant + not making biological, but political decisions. I should talk to Russ.

⑥ He's agreeable to cooperate with Ballou doing The chrysomelas studybook.



21 Feb 86 FRI

We checked out all the Belgian  
L-r. chrysomelas + some new  
GLTs from Berant.

Berant sent  $\frac{1}{2}$  his GLTs to São  
Paulo zoo;  $\frac{1}{2}$  to CPRJ.

NZP male #5 is at CPRJ.  
Also 1.0 chrysomelas to CPRJ.

He moved his animals because  
apparently he had been away and a  
number of chrysomelas had  
died of ~~the~~ bad management.

Got all IDs of the chrysomelas,  
cross checked with records.  
Asked Lorenzo his opinion; and  
divided the animals between  
LA and NZP.

Several pairs had copulated: Lorenzo  
thought one was pregnant.  
Most had missing fingers + toes.  
Three had major parts of their  
tails gone. The damage was  
actually astounding!

Combra was also sending 2



FRI

(21 Feb 86)

captive-born pairs out; one brother/sister pair (→ D.C.); one young mated pair (→ L.A.). He has @ 30 chrysomelas

Lorenzo speaks of the species differences rosalia more nervous + aggressive chrysopygus more shy and passive.

chrysomelas hyperactive

We drive to Rio Bonito to try to phone info to Judith (2 PM DC time FRI). All phones down in town + no one knows if they'll be reconnected.

\$100 shopping stint at Supermercado including huge 5 lb. bags of sweet cookies; crackers; etc.

\$10.00 shopping at vegetable store.

Judith Bloch

Tried phoning from O Gaucho Restaurant between Rio Bonito + Silva Jardim. No phone!

Tried phoning from Silva Jardim. No phone in working order!

Churrosco at O Gaucho + home to collapse. Jim may be getting "The Revenge."



0847 Writing notes on  
front porch  
AND

Hear GLT L.C. across  
railroad tracks

0900 - 0908 ♀ GLT at house  
3 L.C.

0915 ♀ GLT at house L.C.

22 FEB 86

SATUR.

Went running for 1st time to  
tunes of Jim Croce - @ 20'.  
Had been doing <sup>back</sup> exercises, but  
this is 1st effort at jogging.

Elpidio <sup>went</sup> out to open traps  
at 0600.

Jim & I go to Casimiro.  
He has 2 broken fans, a weird  
car problem, & needs to buy  
some odds & ends.

I need to call Judith.

First phone (at bus station)  
is out of order. Jim drives me  
to a sawmill to use their phone &  
I finally get thru to Judith, with  
machinery and caged songbirds  
in the background.

Wake Judith up at 0800 on Sat AM  
(which she said she expected). Explained  
that we hoped to have Jim & Lou Ann  
carry the chrysomelas back to  
Miami w/ 1/2 continuing on to  
LA.



# CHRY/SOMELAS

Information relevant to  
Chrysomelas shipment.

- ① what kinds of health certificates?
- ② Need to send export permit, & then, telex permit No. to Judith?
- ③ Will PA accept GBL number?
- ④ Does CPRJ need additional transport cages?
- ⑤ Go through distribution of animals with Dionizio.

## CAPTIVE POP<sup>n</sup>

Dionizio suggests that if  
GHLT M.C. formally requests  
to IBDF through a resolution  
that all chrysomelas be  
treated the same way as a captive  
pop<sup>n</sup>; Dionizio thinks that IBDF  
would accept it.

em case  
Rua Nogueira Martins 103 Apto 114  
Sorocaba 18100  
Brazil

22 FEB 86

SAT.

provided her w/ all details we had.  
Made appt. for another call.  
And got as much <sup>into</sup> as she could think  
of concerning what we had to do.

Intend to split shipment.

But to have NZP import all  
under our permit.

CPRJ animals are gift.

IBDF " " loans.

Dionizio needs to ① get us export  
permit to send — soon.

② make reservations for flights.

Also had Judith initiate with Horner  
acquisition of all documents  
related to our relations with  
State Dept. and Rio Consulate.

New visitor arrives for  
weekend. Education specialist for  
Zoo in Sorocaba, São Paulo.

Has just returned from Jersey course,  
Maria Cornelia (Nelly) Mergulhão, Parque  
Zoológico Municipal; "Quinzinho de Barros"; Rua  
Teodoro Kaizer s/n; Sorocaba S.P. CEP 18100  
Telephone (0152) 322354



22 Feb 86  
Sat.

Back to house @ 2 PM: Eat lunch  
sleep, read, write notes, talk

Nelly from Sonocaba has been  
asked to give a talk at AAZPA  
meeting in Minneapolis in Sept.  
Is ~~she~~ biologist responsible for  
education program at Zoo.

Article just published in  
"Revista Globo Rural" Ano I  
No. 4 1984

About Marco + Rita Schwartz in Mercês,  
Curitiba, in Parana, initiating  
a program to breed primates for  
sale. Article includes photos of

*S. bicolor*  
*Brachyteles* 2 juv.

GLT

GHLT

*Chiropotes*

*S. oedipus*

*Caecajao rubicundus*

and a sagüi  
branco from  
NE Brasil  
(*C. argentata*?)

and a blond ~~Howler~~ *Aotus* -

Suggests that IBDF gave them confiscated  
animals but didn't approve them

until recently. (Aug 83) Also suggests that  
they breed + concentrate on endangered



President of Brazil Zool.  
Society

Claudio ~~Jacomini~~ Jacomini  
Director  
Zoo in Rio Grande do Sul

22 Feb 86

species when in fact they probably  
mainly breed Callicebus jacchus.

Schwartz ran a restaurant +  
now is trying to make a business  
about a hobby. Arrived in  
Brazil about 1967 from  
Zurich

Jim + I talk about problems  
in Morro do Diabo.

- ① CESP to flood a good  
piece of Reserve forest ~~to~~  
after building 2 hydroelectric  
dams. Want to cut forest  
before flooding. Anticipated  
1987.
- ② CESP provides about \$1 million to  
solve conservation problems.  
Celso Vale volunteers.
- ③ Various people, including Jim, +  
hordes of botanists, zoologists, etc.  
wander through giving advice.  
No action plan developed.
- ④ Laurenz Pinder goes in during a  
course by Ken Glander on  
immobilizing howler monkeys.



22 Feb 86  
Sat.

⑤ Laurenz traps one family group of L. chrysopygus which are rapidly sent to CPRJ. Laurenz angry, thought that he was there to assist in transplantation effort for chrysopygus.

⑥ Cory Carvalho of IEF-SP  
Instituto Estadual do Florestal -  
São Paulo

refuses to permit further trapping of  
chrysopygus.

IBDF and state <sup>forestry</sup> /locking horns.  
⑦ Deforestation estimated to be  
just about to begin.

⑧ What happened to CESP's \$?

Who was in charge?

What were they supposed to  
accomplish?

Was there an action plan?

Elpidio Otavio + Jaires bring in  
13 animals from 2 groups  
for processing.



We process between about  
1900-2400.

Basic conclusions:

	A	SA	Juv.
Banana	0.2	0.2	0.2
Ouro group	(one 0.1 lactating)		
	Additional adult outside traps not caught.		

	A	SA	Juv.
Eucalyptus group	1.1	1.3	1.0
	(0.1 non reprod.)		

Additional adult outside traps  
not caught.

22 Feb 86  
Sat.

Some thoughts that have emerged  
from trapping + processing +  
before: Assumptions

(a) How do you determine an adult animal  
weight; teeth; scent glands.

Recommended 7550g

If under <sup>550g</sup> check tooth wear.

Heavy wear overrides weight.  
If can't determine yet; check  
glands.

Is a <500g; no tooth wear;  
well-developed glands animal an  
adult?

(b) What about reproductive Adult?

1) Impossible to determine if an  
adult male is reproductively-  
active from processing.  
Must be seen to copulate!

2) ♀ may be called reproductive  
if gravid; lact.; or with  
large nipples.

>4 nipple size suggests previous  
reproduction.



Doesn't necessarily suggest  
current reproduction.

- (C) ~~Trapping sites~~  
What are limits of weight  
Rbk recommends  
450 - 550 grams

And juvenile 350 - 450 g

And Inf. < 350 g.

check woolly pelage with  
weight.

Are there animals under 550 g.  
with developed sternal/  
circumgenital glands?  
What does their tooth wear look like?

- (D) What constitutes a member  
of a group?

1) How are group counts + sex + age  
composition determined?

(a) Trapping

animals trapped together  
may include neighbors  
if trapped animals  
=

22 Feb 86

act as decoys

(eg I from Carlos group  
with Banana Ours group)

Could there be seasonal differences  
in

- (a) Attraction + repulsion of  
neighbors
- (b) Home range overlap
- (c) degree of trappability of individuals
- (d) subgroup development
- (e) immigration + emigration

How do you differentiate real  
changes in group composition  
from trapping ~~with~~ data:  
with ~~changes~~ apparent changes  
due to ~~some~~ group members from 2 or more  
groups being trapped at same site?

Site selection: ① w/in known  
home range VS

② at ~~area~~ border of several  
home ranges

- (b) Visual confirmation + following of  
marked animals over several  
days/weeks. Use of same  
night time roosting site.



22 Feb 86

A

Requirements for appropriate determination of mating system with sufficient reliability:

What % of stock is permitted? How to determine the mode thru relative abundances?

① Individual identifications in field

② Sex and age of individuals determined.

③ Reproductive behavior documented in field

a) ♂: Copulatory behavior with ♀ that produces offspring. Includes mount; thrust; known intromission [ejac. may be difficult to determine].

[Paternity studies would be nice]

b) ♀: Pregnancy confirmed.

Delivery date known within several days.

Lactational status observed.

Copulatory partners documented.

B

Requirements for strict territorial behavior interpretation:

① Home range sizes of known groups clearly identified

② Small % of overlap permitted at all seasons. Simultaneous visual confirmations of locations required to ensure that groups move separately.

[At PdA; would daily attempt to locate a group thru triangulation by worth it? Has Dietz compared perceived location with real location?

All locations should be collected between 4-6 PM when animals in nest boxes.]

C How to determine degree of solidity; rigidity of group size/composition/social organization? [e.g. Does subgrouping exist seasonally; do animals move between groups?]

1. Consecutive simultaneous observations of closely neighboring groups.

2. Trapping runs problem of trap site location relative to home range boundaries.



(D) Should relatives behave differently  
from non-relatives?

23 Feb 86

23 Feb 86

Domingo

Slept; wrote up my notes;  
read Portuguese; talked  
with Jim;

We ended up processing one monkey.  
Traps not working!



24 Feb 86

24 Feb 86

Monday

Ran in AM — It's getting easier but is definitely still not pleasant.

Read some of Carlos Perez; + sat down w/ Jim to talk Theory. He has finally been reading some callitrichid mating system work + is getting excited about his data.

Also beginning to understand some of the issues.

Elpidio + Octavio brought in 19 animals (1) which we processed between 1700 + 2200 hrs. Had a quick dinner before working over the animals.

Jim has processing procedures down to about 15 min/animal including weights, measurements, check reprod. condit., check glandular development; dye them w/ Nyanzol + tattoo them.



Zeke + Inez return in  
the middle of the  
processing + both help.  
We end up with an army  
of helpers climbing over  
each other.

It's clear from processing  
that in some cases there  
are more than 2 letters  
per group or more than  
2 females becoming  
pregnant. How this  
relates to mating system +  
social org<sup>n</sup>. isn't clear.

Some of the animals coming  
in are recaptures for  
the 7<sup>th</sup> time and have

24 Feb 86  
been tattooed for ~~many~~  
~~over~~ nearly 2 years!

It is very frustrating  
with trapping, however, because  
the animals you trap may  
or may not be the whole  
group and, the trapped  
animals may or may not be  
from the same group, altho  
in the same location.

Lawrence has trapped 2  
sloths which are "hanging" around  
on the floor while our  
army processes animals.  
Periodically Octavio touches  
one + it comes out w/ a  
most pathetic "mew" sound.  
The sloths eventually sleep next door.

Amusing vignettes include  
Octavio always being one step  
ahead of me on animal IDs  
+ patiently listening to me  
explain the Nyanzol marks.



Insects everywhere in  
the lab with Inez + Jim  
periodically screaming +  
pounding / slamming on  
their legs.

The whole operation, is,  
however, very smooth.

I slept really poorly with  
2 mosquitoes buzzing around  
all night + all my bites  
itching horribly.

25 Feb 86

Tuesday

Early morning run to  
tunes of ST Popular songs.  
(Judy Garland!)

Jim + I drive to Pesagro. The  
idea is to evaluate Butterscotch's  
condition with Joke + Inez +  
make a decision about whether  
and how she will be removed +  
the logic of argument development.

The observers from S.T. have been  
feeding the group daily since  
last week; instead of on ~~only~~  
alternate days because Butterscotch  
has appeared so hungry.

But whole group now responds  
to the observers as feeders +  
whenever a pack is opened,  
they go for it.

While we are there watching  
New Orleans group (NO), Jim  
(1045 hrs - make contact with NO group)



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and I are both struck by how low to the ground these animals are moving. And how slowly.

Jimi calls them demoralized looking & they certainly seem less sure about what they are doing and where they are going.

They are active in fairly scrubby territory high on the hill; Haven't gotten down to the swamp area lately.

Observers have been struck by the fact that, their movements are slower & the two groups have not been interacting at all, even when very close.

(They were close to each other while we were there & at one point, Venus L.C. to find her group and certainly Wicketa could hear; but did not respond)



Jim, Inez, Zigue + I set in  
the middle of the largest  
flock of mosquitos ever seen.  
while developing a train of  
logical thought together.

- (1) we agreed that feeding the  
group more rather than less  
was not useful for the  
group's future.
- (2) we agreed that jeopardizing  
the future of the whole  
group for one older ♀  
was not good, and that  
the NO group needs to  
continue to be challenged.
- (3) We more or less agreed to  
cut back food + remove  
butter scotch if her condition  
deteriorates
- (4) We also agreed that before  
returning her, we would

18,000

25 Feb 86

evaluate the group's condition.  
If group movements, locomotion,  
substrate use, etc. had  
improved, we wouldn't  
return Butter scotch, but send  
her to C.P.R.J. etc..

Meanwhile Butter scotch looked  
reasonably good.

Car trouble plagues us.  
Lawrenz, because he didn't know what  
the budget was, hadn't been  
keeping the cars up —

All the cars are occupying  
about  $\frac{1}{3}$  Jim's time.

On going to Pasagiro  
we have to stop to have some  
repairs done and organize to leave the car  
to fix some.

On way out @ noon, it  
is hot, humid, I am exhausted,  
+ hungry + bad tempered  
and we have to wait for



25 Feb 86

the car to be finished. Then  
Jim has to buy <sup>plastic</sup> hoses for  
car; bread; —  
We call Berant + The US  
Consulate re: appts.

Need to find Idimar to  
bring her back to Reserve  
(our cook / laundress ~~who~~ who  
went into town night before)  
She doesn't show up when +  
where planned.

(Inez had been making  
arrangements).

By the time, it's all done, I  
am really bad-tempered,  
+ we finally get back to  
Reserve about 2 or 3 PM.

NOTE: Inez was accepted  
into Jersey W.P.T. Training  
course and needs Tetanus  
shots; chest X-rays +  
Health Certificate. We



25 Feb 86

walk together down to the  
Health Clinic which is a  
Bldg @ 4 rooms w/  
nurses giving shots ~~+~~,  
I think, one doctor.

Inez - I just walk right  
in + ignore the queue.  
People apparently line up early  
in morning + take a number  
to be called.

Mothers with sick kids,  
crying kids, kids getting  
vaccinated.

Inez somehow gets right in to  
talk to the doctor who ~~says~~  
writes her a Health Cert.  
on the spot.

But they don't have any X-ray  
equipment and cannot give  
her the tetanus.

Inez plans to make a

flying trip to Sao Paulo  
and back to try to visit  
CPRJ with me, now that she  
is thinking of doing her  
master's on a comparative  
study of Leontopithecus.

I slept an hour, but then  
was off to lecture to a  
Conservation Club at Casimiro  
de Abreu - with Beth +  
Lon-Ann.

This is a group of teens +  
pre-teens interested in biology +  
conservation that are  
meeting twice a month.

Mostly young boys altho  
the group also has 2 girls.

I lecture about the <sup>GLT</sup> captive  
breeding + research program  
+ training for reintroductions  
in Portuguese



which surprises not only me, but everyone else.

Questions are of the type:

- ① Why do bats hang upside down?
- ② How long do hippos live?

But some of the kids are incredibly bright looking.

Stop to buy beer on way back.

Drunk some beer when we return but no animals to process!

26 Feb 86

26 Feb 86 Wednesday

Start the morning discussing budgets + numbers of observers needed with Jim + Lou Ann. Jim a little tipped because Sue changed position + now want to support a full helper for Andy; whereas before I had apparently indicated only limited help.

we figure out that we can give the observers a raise + hold onto @ a total of 5 people while still keeping within budget.

Slack is less than previously, but still available.

Deonizio arrives + Jim + I go thru the needs of the chrysomelas shipment.



## Triage center

Jefferson Figueira de Mello  
Av. Presidente Antonio Carlos,  
607 / 12<sup>a</sup>

IBDF - Centro de Triagem  
de Animais Silvestres  
Rio De Janeiro

(telefone -  
294 - 8048)

Milci dos Santos  
Rua Major Rubens Vaz, 122  
Gávea CEP 22470

IBDF Parque Nacional da  
Tijuca  
R.J.

267686

Diorgio will

- ① check on whether papers  
can get signed + sent
- ② see about flight  
reservations
- ③ Etc.

By lunchtime, there are also two  
men from The Triage Center  
in Tijuca Park, Rio.

They want to talk about how to  
get support for the Ctr.

Altho they do numerous necropsies,  
they don't have a fridge —  
nor a decent necropsy  
room.

They feel that some notice by +  
support from the U.S.  
will help their cause.

We discuss benefits of  
constructing at 2 sites vs one;  
using The Triage Center for  
education; how opening



About 3 PM I discover  
 $\frac{1}{3}$  ~~APs~~ sloths  
climbing up to my  
bed in my  
bunkbed arrangement

James & Octavio generously  
remove it!

26 Feb 86

to the public for conserv. educ.  
would make it more difficult  
for IBDF to bury their  
budget.

They aren't yet a separate  
clear-cut line item — as they  
should be in the budget.

They get lots of bad press  
and have even been hit by the  
equivalent of the Humane Society

But they have minimal money  
for support + work in really  
poor conditions.

Laureny goes to pick up  
man from São Paulo who does  
karyotyping on edentates.

Takes one Kombi but comes back  
in out of breath since car  
breaks down by railway station  
and his contact is due in by  
bus.

He borrows Dionizio's car



meanwhile I sleep a  
bit more; study Portuguese;

In late PM before dinner,  
we process only 3 GLTs.

They are not coming in in  
the numbers Jim expected.

São Paulo karyotypes

Wilhem Jorge  
had worked with Benirschke  
for 2 years in mid-1970s  
and published some on  
edentate karyotypes.

Later turns out that he had  
contributed to Gene Montgomery's  
book which is still unpublished  
after 7-8 years or so.

In evening we drink beer  
discuss Lauren's future &  
who would make good advisor  
and talk @ Gene  
Montgomery.

27 Feb 86  
Thurs

27 Feb 86

Ran in early A.M.

Then drove to Pesagrow  
Zigue to spend the day with  
Wichita + New Orleans groups.

Hit the forest @ 0930 hours +  
made contact with NO group  
about 0935 -

They had been fed the  
previous day. Also Venus  
had attacked Andrea the  
previous day to try to obtain  
food.

0950 hours. Butter scotch  
caught + ate a good-  
sized grasshopper.

But she (+ the rest of  
the group) were doing much



27 Feb 86

of them foraging on the ground or close to it.

Initially it seems as tho only *Promethes* + *Butler* on the ground. But after a while, it's clear that that's the whole group moving low.

1008 hrs. Venus at one point drops from about 15 m +  
Thereafter seems to stay low.

*Lancelet* often separate from group or at least aloof.

They are foraging in leaf litter + dried dead branches + trunks on or near the ground.

Perhaps no fruit available.  
and no trees w/ height  
~~with~~ with either plant or animal food.

1020 4/5 of the animals or or near ground.



27 Feb 86

When Elzein ( $\sim 10^{47}$ ) opens pack to pull out H<sub>2</sub>O canteen, I heard an immediate food chirp + ~~the animal~~, ~~I think Venus approached~~ all animals stopped + attended. No one, however approached Elzein closely.

11<sup>17</sup> We continued following group. They ascend hill + we are in spiny palms; dry, low stature forest.

Both Elzein + Elizama indicate that the group is moving further + faster than in recent days.

They are micro manipulating in dead wood,

but their locomotion is poor + jumpy + erratic.

Also they are surprisingly

quiet. Only soft chirps whereas they would have been long-calling + having encounters in the past.

Explanations (?)

- ① Habitat they are using
- ② Butterscotch's condition w/ resulting instability in stable group
- ③ Being fed.
- ④ Being pushed out of decent territory into marginal habitat by Wichita group.

Also not clear why they are suddenly moving so far today compared with previous day.

About 11<sup>20</sup> hours Venus finds a



Toad which she tries to eat. Frothing at mouth.

Head shaking. She continues to carry the toad from place to place, but doesn't kill it or eat any part of it.

Eventually she drops it & moves on, after carrying it for @ 3m.

The toad is clearly unharmed. (Photos taken)

Are toads more common on the ground than frogs in a tropical rain forest?

∴ GLT desire to eat frogs & whatever built in responses they have, are confused by ~~responses~~ their foraging on ground & confusing frogs and toads.

29 Feb 86

About 1147 Lancelot is high up a tree & apparently Prometheus approaches. For about 3-4 min.

There is a periodic loud rasp/squeal from an animal high up which sounds like an animal in pain. The two observers indicate that it

isn't uncommon for one animal to approach another <sup>who has</sup> food & really scream/rasp loudly, to try to get food away.

I'm surprised by the loudness of the sound and its defensive/fear components

Elzein thinks that Lancelot caught a frog.

At 1204 Prometheus is eating a full frog at a relatively low height (~3m).

As he finishes eating animal (starts head first)



he chirps a few times + some other group members attend.

It was almost like a food share chirp. (@ 1208 hrs)

Then Lancelot approaches, but Prom. eats the last leg!

At 12<sup>40</sup> hrs Elizama took me over to watch the Wichita group.

As I arrived (observers Marcelo + Andrea) they had just entered a fruit tree.

Clumped small purple fruits (~ 1/4 inch diameter)

(I think they are green when not ripe)

The crown is @ 15m high

27 Feb 86

and from 12<sup>50</sup> — 13<sup>15</sup> the group feeds in this large fruit tree.

Feeding chirps accompany the bout + animals are surprisingly comfortable moving in + out of the heights and hanging on very thin, flexible twigs to get at the fruit.

This group is certainly moving higher + with more self assurance than the N.O. group. They are also more comfortable looking

13<sup>15</sup> They one by one leave the tree. ~~At 13<sup>15</sup> they leave the tree.~~ I had poor IDs.

They then spread eagle on some 75 branches



and have prolonged period  
of rest — but not  
huddled + with limited  
grooming interactions.

Clearly being satisfied w/  
food + hot leads to  
a spread resting bout.

Of course, probably no  
more than 5 m between  
the furthest members of  
the group.

Heights vary from 3-4 m.  
Jackie + Pepe periodically lay  
together in a line, but  
not huddled.

Animals look as though  
sternal marking while resting  
altho. not.

We are @ 1-2 m from  
individuals but they seem  
totally unconcerned.

27 Feb 86

1405 After rest, they  
return to fruit tree  
and feed between  
1405 - 1428

1428 Juan, Maria, Jackie, +  
Pepe leave the crown,  
in that order +  
return down to lower  
heights for more resting.

During next rest period  
Juan seen w/ Maria  
several times. Maria's  
radio antenna is chewed  
but the radio seems OK +  
functioning.

1439 - Whole group has another  
resting bout for @ 5 min.

Resting overhanging boughs or  
> 5 branches separated.



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Jackie looks very pregnant  
to me & the observers indicate  
that they think that Maria  
is also pregnant.

1444 Jackie defecated.  
Feces firm, oblong &  
very dark. Look excellent.

Juan to ground while Pepe  
starts foraging & begins  
eating bromeliad leaves.

1506 Juan eating something  
that is insect or  
perhaps crustacean-like  
animal.

Light colored - with  
three pairs legs close together.  
Could there be land crabs  
that look like that. Some  
photos taken.

We leave Poço das Antas  
15<sup>30</sup> hours & return to Poco das Antas



After a shower, Jim, I, Elpidio, Octavio and I process 4 animals. One, a very old unmarked ♀, never before trapped.

Her forearm is broken at the humerus, near the shoulder & it looks like a new break.

Later Jim speaks w/ Elpidio ~~who~~ who indicates that he doesn't think so because she emerged from trap and climbed a tree straight away as tho not at all inconvenienced.

Meanwhile Jim & I are guilty after processing because it looks like a break caused by the trapping procedure.

After dinner Jim and I get into argument @

27 Feb 86

his training of Pandora & Aphrodite after they were removed from the single tree they occupied in Beagro.

Jim casually "trained" them in the little cage beyond field headquarters & found that they were incredibly good when released.

I get up tight because I detect criticism of Ben's techniques & how efficient they were.

And Jim's saying "maybe we didn't need to spend all that time & money" & I say but we're doing research & there are too many variables & you don't even know what you did!

And so it went until bed!



28 Feb 86 FRID.

Spent most of day writing up  
notes,

discussing admin. w/ Jim +  
Lou Ann (2-3 hrs)

and discussing biology w/  
Jim.

Elpidio + Otavio didn't  
get any monkeys.

Issue is age/sex distribution  
of callitrichids.

Are they possibly like canids  
where the sex ratio changes  
from male-biased in  
stable saturated populations  
to female biased or 1:1  
in growing expanding  
popns.

Carlos Pess mentions  
L. mystax sex ratios being  
different in Ranvier study



where she was studying  
recovering populations after  
a cropping effort vs.  
Barber working with a  
stable saturated pop'n.  
Check it!

L. rosalia sex ratios are about  
1:1 in the Reserve, but  
population may be expanding.  
We don't know.

Jim + I go to Casimiro to <sup>try to</sup> talk  
with Judith in DC about the  
chrysomelas shipment. All is go on her  
end. Also speak with Ben briefly.

(NOTE: Brazil devalued the "cruzeiro" this  
morning for 1st time in 20 years ± changed  
the name of its currency to "cruzado"  
official exchange rate on arrival was  
13,000 cr/\$ (unofficial 17,500). With  
the change official rate now 13.8 cr/\$  
(unofficial ~ 20 cr/\$).  
Wages + prices were frozen. Banks  
closed today. Some rioting. Lots of  
worry.

Sat.  
1 March 86

1 March 86

Logged in AM - Felt awful  
as usual.

Continued to read Carlos' paper  
on group structure in  
L. rosalia + callitrichids

Useful for thinking.

Finished document for SI  
Research Policy Comm.

Started + completed updated  
list of telephone numbers  
+ addresses for Brazil.

Went out with Jim Elpidio Otavio  
to check the traps at Portuense  
and along the new road to  
Aristedes house. Jim + I



1 Mar 86

Talked about how to maintain the road - Deonzo has not really been thinking about long-term management.

Several thoughts emerged.

- ① Open up several old roads with a bulldozer and maintain them as roads + for firebreaks
- ② Extend Aristides road until the edge of the Reserve where the new Headquarters is being built.
- ③ Maintaining firebreaks

Walked down the length of the Portuense trail with Otavio.

Nice trail - easy walk - The forest feels good.

We get no monkeys



again but leave the traps open for another 2-3 hrs.

We return about 2:30 + it begins absolutely pouring with rain. Had had a regular PM downpour, except for the past few days.

Otávio + Elpidio go out again. There were @ 4 animals trapped but they were <sup>re</sup>captures. So they were released.

Otávio said that he took off all his clothes + checked traps wearing only a rain poncho.

Trapping: Elpidio + Otávio have tended to leave house @ 0600 hours to set traps. usually setting about 8-10 traps per site and about 5-6 sites. They check traps about noon + again at 3 PM. When they have

2 Mar 86

Trapped many tamarins by noon, They'll bring them in for processing.

Thus, there ~~was~~ was one day when Jim processed two batches of animals.

Trapping data is very complicated!

After return, I wrote basis for a press release when (and if) the ~~chrysomelids~~ chrysomelids leave which London, Beth + Inez later turn into Portuguese. I also write letter to Dionizio to go with the budget summary we gave him. Inez returns back from São Paulo.

N.O. group is worse according to Inez + Joke with Butterscotch + all other on ground + Butterscotch + Venus begging for food. Venus rasping.



The <sup>N.O.</sup> group is getting worse.  
Scotch approaches one of the  
observers for food — He  
pushes her away + she ends up  
on her back threatening.

Andrea stays over to make cake  
for churros next day.

2 Mar 86  
Sund.

Churrosco planned for today  
for the whole GLT crew.

Don Ann expecting 30 people!

I spend my morning cutting up  
tomatoes, green peppers and  
my fingers!

Kids start arriving about 12:30.  
~~that~~

Two business meetings:

① All the reintroduction  
observers!

Jim explains <sup>(a)</sup> how he plans to  
give them raises

② Mal Zigue will be their  
administrative boss + Andy  
their biological boss

when Inez goes.

③ Gives them some field clothes

④ Talks about doing more  
early evening + early AM  
observes.

⑤ details Zigue's duties

⑥ vacation time  
(1 week / 6 mos)



② General meeting with everyone  
where Jim thanks them +  
I thank them.

For churrasco

12 kg chicken

? kg. sausage

? kg. beef

Don Ann says they usually  
plan on about 1 kg of  
meat / person.

Food includes <sup>chopped</sup> tomato/onion/green pepper  
rice, beans, baked potatoes  
bread; chicken, beef, sausage  
tubui.  
and cold Antarctica beer!

Volley ball after lunch.

The "mata" kids are really  
good. Clearly Brazilians  
are trained well in volleyball,  
very controlled players.

The mata kids:

Andrea - from very poor family  
apparently, with problems - Only  
woman in mata except for Ines.  
States taking vacations. Makes a  
good cake. Very responsible.

Elycio - wanted to be  
biologist but failed his exams  
to enter university. I've  
lectured him several times about  
studying. He's one of the brightest +  
most charming of the kids. Also  
from a family that can pay. His  
charm reminds me of Karl.

Elyzaria - Elycio's brother.  
Nice, but not so bright.

Marcelo + Luis I don't know  
well since they're relatively new.  
Luis seems bright.

Paulo just passed exams to  
become an IBDF guard + will  
eventually leave project when  
a job opening occurs.



By now Jim has talked with almost everyone. New decisions about administration.

Recommend a Mond. ~~morning~~<sup>evening</sup> meeting among all major personnel (Laurens, Zigue, Beth, Andy & Greg) to discuss what will be occurring during week & to air problems that individuals might have.

Laurens too authoritarian & up-tight. Greg too sensitive. Unclear distribution of responsibilities and authority.



3 March '86

3 March 1986 Monday

Up at 4:30 AM to leave house  
by 5:00 to catch 8:00 AM flight  
Rio → Brasília. We are supposed  
to meet Dionísio somewhere on a street corner  
on the way & take him to airport.

As we're driving the carburetor starts  
giving out and Jim is constantly  
trying to accelerate at a rate  
that will keep the car moving.

At one point it looks like he's  
cleaned it out (whatever  
is plugging it) & the Kombi  
seems to run fine. His hands  
are clenched! The car starts  
giving out again and just  
gets worse & worse.

About 7 AM we pull over at  
one of the police little stations &  
Jim talks about how & whether  
we could get a bus to Rio  
to get to the Airport.

It's pretty clear that we  
won't make the plane.

We're about 26 km  
from Rio.



Jim figures on leaving the car,  
having Zigue + Onéz come with us  
to the airport, + then having  
them take a bus back to a  
town near where we left  
the car in order to find a  
mechanic to fix ~~the car~~ on the road.

Miraculously, within 2  
minutes of our stopping +  
piling out of the car, a taxi  
passes + we flag it down +  
pile in with luggage (a bit  
crowded!)

The taxi runs us thru the  
Mond. morning rush hour in  
Rio and gets us to the  
airport at 0745. Plane due  
to leave at 0800. We still  
don't know if we'll make  
it.

Get our luggage checked  
+ boarding passes but no

3 March 86

IBDF

sign of Dionizio! To Gate and on  
bus to get plane.

Still no sign of Dionizio!  
The second the bus is about to head  
for the plane @ 0802,  
Dionizio shows up. He'd waited +  
finally got a taxi at 0726 +  
just got in the gate.

A cliffhanger — but isn't  
it always like that in Brazil.

Plane packed and we have  
an IBDF car waiting for us  
in Brasilia.

Straight to the IBDF offices  
where we meet

Lourdes; Raquel; Marlezi;  
Ivo;

and start out in the office of  
The new Director of the DN.

João sits us at a round <sup>conference</sup> table  
in his office + we start --



3 March 86  
IBDF

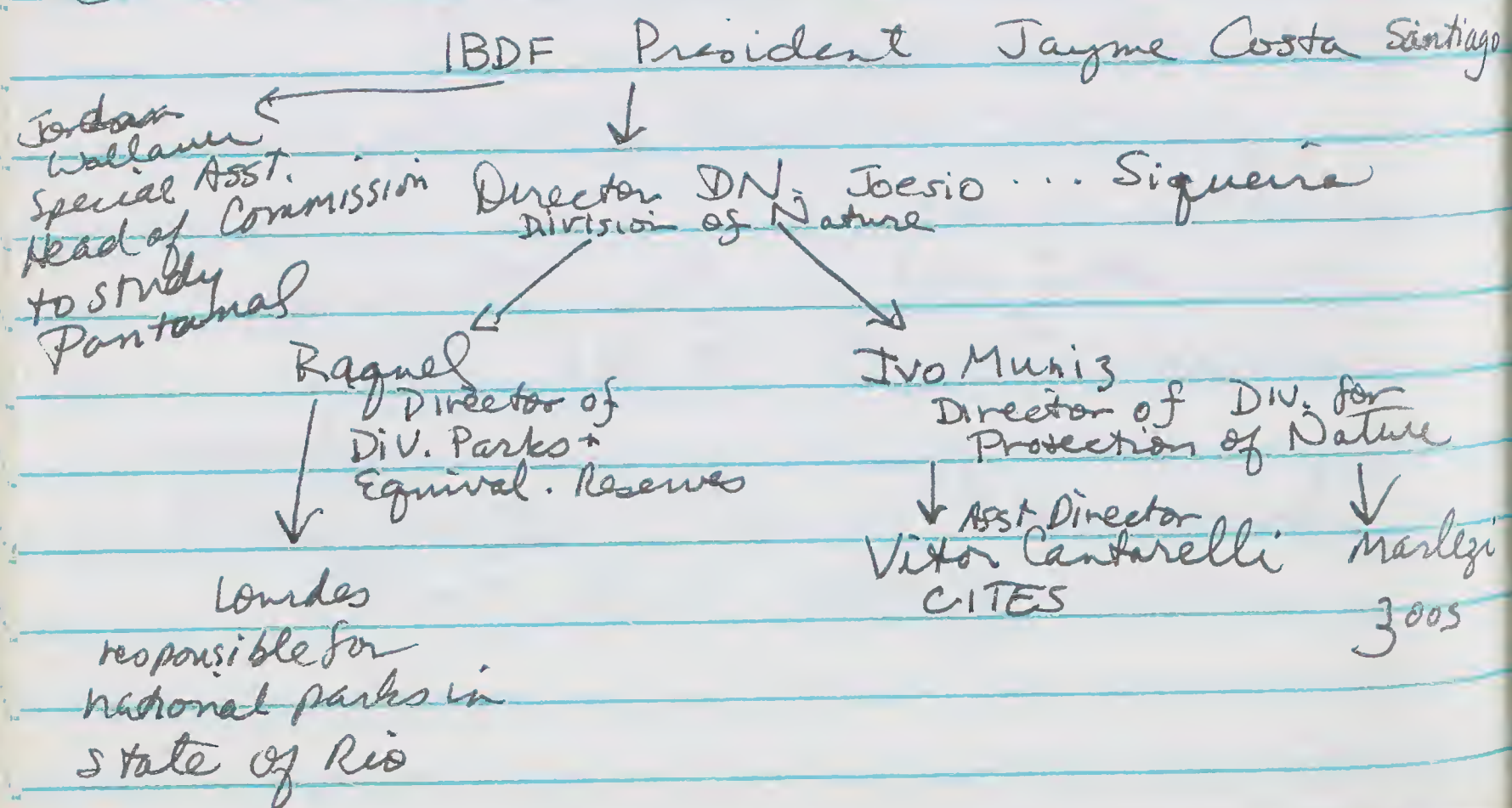
Talking right away @ the chrysomelas.

Joao has entire chrysomelas file in front of him including Coimbra / Pissinatti's <sup>original</sup> report on the condition of the animals.

Impossible to summarize progression of the discussion since there were contradictory responses to some questions.

Jordan Wallauer came in during the meeting + clearly there was disagreement between him + Raquel.

### ① Current Structure:



Prior to our arrival, Dionizio had spoken with Raquel on the phone + she had told Dionizio that she wouldn't touch the chrysomelas issue because it wasn't known who was responsible for what in the DN with the new Director.

Once we sorted everything out, it seemed reasonably clear where the responsibilities should remain, and responsibility for different issues was delegated by Joao.

### ② GLT Internal - Comm.

Asked who should be the IBDF representative to the Int. Comm.

Discussed representation by Jordan + Maria Teresa. The former originally being for the institution + the latter for both her experience, status, & knowledge + institutional affiliation.

Joao made it clear that he would have a representative delegated to the Int. M.C. GLT,



but that any representative would represent the office. Therefore any correspondence related to the IBDF/DN should be sent to:

Departamento de  
Diretor de Parques Nacionais e  
Reservas Equivalentes  
attn: Projecto Mico-leão-dourado

Other mail sent to a person should have their name on it and ~~to~~ have added: PESSOAL (personal)

Eventually after 2 days of discussion with individuals + some thinking, I decided to leave Maria Teresa on + recommend that Jordan also be left on but that an additional institutional member for IBDF be added.

[Joëzio wanted to know how the Comm. was formed. I said by Mallinson me, Mittermeier]. [Actually, I <sup>probably</sup> gave him the impression that we were self-appointed although on remembering, that

3 March 86

IBDF

was input from IUCN, WWF, + some other organizations as well as people.

By afternoon of 4<sup>th</sup> March, it was decided that the Internat. Mgmt Comm. would be responsible for the management of GHLTs in captivity while IBDF would retain ownership of all animals + their offspring.

Late on the PM of the 4<sup>th</sup> we prepared an M.O.U. signed by JMD, Joëzio, me, Joëzio, Ivo + Cantarelli on the function of IBDF + the Int. Comm. in the management of GHLTs in captivity.

Major points were that:

- ① IBDF retained ownership.
- ② Participants in Int. Breeding Prog. cannot sell animals.
- ③ M.C. evaluates qualifications of applicants;
  - (a) is given authority to manage the captive pop'n
  - (b) develops standards + protocols
  - (c) makes recommendations on transfers, ~~data~~ pairings etc.



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- ④ Particip. must abide by M.C. decisions
- ⑤ Particip. must send inventories to MC for snubbooks
- ⑥ Particip. must contribute to reintroduction program should IBDF initiate one at an appropriate place & time.
- ⑦ Scientific publications <sup>based on animals</sup> should be sent to MC for distribution to participating institutions.

Diomzio, Jim, Ivo and I drafted the M.O.U. ~~by~~<sup>in</sup> pencil & had it typed by G.P.M. and signed by 4 of us.

Given that we knew nothing about what would meet in Brasilia, it was astonishing that we reached the agreement.

It permit the M.C. to make decisions on Japan, La Palmyre in France \* and then ask IBDF to recall animals. [Joësis indicates that IBDF could negotiate directly ~~with~~ for the remaining animals] Earlier when discussing the Japanese & French animals, it was my impression that IBDF had decided that since

\* Mallinson supposed to request that ① IBDF treat entire captive population the same way and ② requests that IBDF initiate efforts to get Japanese & French animals returned — BUT IBDF may have already agreed to leave the animals

these institutions had agreed to abide by an international agreement, that they ~~therefore~~ could keep the animals.

This, it turned out, was partly because they couldn't figure out what to do with the animals, if sent back to ~~Japan~~ Brazil from Japan. I explained in depth to Cantarelli, the CITES rep., that setting such precedents was bad!!.

Also even recommended that they ask São Paulo zoo to send some of their animals out to open up cages to receive ~~Japanese~~ <sup>Japanese</sup> animals. But I think that they lose total control over the animals once they deposit them with a zoo. (also all descendants belong to the holding zoo).

Also, when I first dictated the major points concerning the Int. M.C. for GHLT's ~~to~~ relation w/ IBDF ~~to~~ (The M.O.U. we finally drafted) & Joësis said OK, I asked whether Brazilian zoos shouldn't have to meet the minimum standards & be evaluated by the M.C. as well.

We agreed, but clearly no one

based on Jordan's comments about the Japanese agreeing to sign the agreement. It's OK for them to keep GHLT



thought they could enforce it. Although I think they agreed that making the Brazilians participate was one way to force a raising of standards.

### ③ Belgian GHLTs:

Joesio indicated that IBDF via the President had asked ITAMARATY, the State Dept., to permit Brazil to export the Belgian GHLTs.

The Export Permit depended on Itamaraty's agreeing to the export. The letter signed by the IBDF Pres. had been sent out 26 Feb. but no reply had been received. Since we had an afternoon apt. w/ the Pres., Joesio determined to ~~hold that~~ present the problem.

We met Cantarelli, the CITES Management Authority (Stanford shirt, 2 days in a row) who said that they had already heard from the U.S. CITES Mgmt Authority.

[Later Pres. said to proceed w/ all due haste in trying to get

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the Itamaraty OK + delegated respons. to Joesio.]

On 4<sup>th</sup> March while in Joesio's office he calls Itamaraty + talks to administrator about the person to whom the letter was addressed. [Says that — according to Jim — he's got these Americans on his back; want to take the animals back when they leave (to accompany them); can he search down the letter; everyone thinks it's a good idea to have the ~~Inter.~~ Intern. Captive Popn initiated] ~~Inter.~~

Sounded like IBDF Brasilia again decided to resolve an issue + assist us, and they were acting quickly + efficiently.

We eventually got a Xerox of the letter Souza sent to the Itamaraty —

During joint meeting on 3 March



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in retrospect, Jordan + Raquel were disagreeing & we were unable to reach an agreement with both present.

Before Jordan's arrival, Joesio asked all staff whether the animals should be exported for an Int. ~~Int.~~ " breeding program, they all said yes.

Joesio kept emphasizing the importance of developing process + procedures for dealing with such problems, which, I think, is why he approved by M.O.U. text. He early on said he wanted a document to institutionalize the way GHLTs were handled in the future.

[Jordan mentioned providing more resources to institutions w/ GHLT for housing + food. Subject of FCEMA's ~~to~~ refusing IBDF \$ came up. Jordan suggests having IBDF funnel money through FBCN to Coimbra instead of thru FCEMA]

#### ④ Voco das Antas.

One major issue was to try to get the IBDF President to push to increase the size of PdA. This issue, although of major importance didn't get handled until almost too late. But Jim + Dionizio went over the needs w/ Joesio + Raquel first + eventually w/ the President.

There are ~~few~~ alternatives available for expropriating land, but some do exist.

Also - on way to Zoo next day, JMD talked to Dionizio about getting money to maintain firebreaks, maintain + extend to new headquaters. The road to

Antides house which nearly goes as far as the edge of the reserve where the headquaters <sup>are</sup>. (Need to by-pass or build bridge over swamp).

Dionizio mentioned to Lourdes, who agreed immediately.

(Dionizio <sup>still</sup> needs to be told what to do. He has good judgment



and makes or recommends sensible decisions BUT won't initiate anything new & hates to change policy — eg: guards not in Reserve lots and he hasn't developed techniques yet for dealing with it. For making guards do their jobs and ensuring continued protection of Reserve. [eg. he needs the equivalent of a Keeper daily report from each guard with a list of days activities & performance standards for jobs & a telephone at the New Headquarters to communicate with the guards.]

⑤ Jordan is now Special Asst. to Director in charge of newly formed Commission on "The Pantanal."

⑥ UNA — we talk to Ragnel @ Una Reserve. She suggests that they now plan to take a degraded part of the Reserve and move the squatters into it, instead of buying them out. She & Jordan disagree rather vehemently about

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whether the money for the removal of the squatters is still available.

I'm very uncomfortable with discussions about Una's protection. Too many contradictions.

[Water Jui said that Ragnel & Jordan disagreed totally on whether the new Delegado was or was not ~~supportive~~ supportive of work in Una.]

Jim raised the question of future research in UNA & problem of too many chiefs. Ragnel said that they needed a plan. Also indicated that letter to Angela re: our visit to Una was not in the files. Neither Ragnel nor Joesito had seen it.

Jim's concerns about potential conflict over UNA research not picked up by Ragnel who wants to take 1st steps 1st. Need Management Plan w/ recommendations.



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⑦ NZP interests:

a) we discuss IBDF's role as a record keeper & how IBDF needs to understand the basics of record keeping - Recommend to Josio that someone be delegated to come to the U.S. to NZP to gain more experience in animal management; development of protocols for breeding & maintenance - how to set mgmt. standards & keep them; <sup>animal shipments</sup> computerized inventories; ISIS and AAEP organization & function.

On 4<sup>th</sup> March late PM, we are told that Josio would like to see IVO receive the type of training. Jim & I discuss a short-term visitor program for IVO; how to fund it; (SI, WPTI, etc.) and how long.

b) Species: we briefly indicate NZP interest in expanding studies to other species.

Josio recommends that we write a formal letter indicating our interest in further collaboration & with some specific species named, eg. *Speotyto chrysocyon* & *Pteronura*

⑧ IBDF-owned GLTs. Late on Tues.

PM Jim & Dionizio draft letter ~~donating~~ ~~IBDF~~ management authority of GLTs deposited in US in 1981 and their descendants to zoos in which they are deposited. (I later realize that ownership of descendants by Brazilian law, is always in the hands of the receiving institution.

(That's why there are problems w/ GLTs ownership in Brazilian zoos).

IBDF only ever owns the original animals !!! We have agonized over this issue for 4 years & I think the solution was always staring us in the face!  
Good grief !!!

⑨ Brazilian zoos - Discuss with Josio & IVO & Cantarelli need to set standards for zoo management.



They are fairly frustrated by their inability to enforce anything — eg stop selling or trading of endangered species.

They don't get inventories, once they deposit animals.

Ivo will go to the <sup>new</sup> Brazilian Zoo Society meeting. [We try to figure out ways to attend or be represented but never can]. [Scheduled for March 16-20 in São Paulo].

Ivo can also learn about function of AAZPA + perhaps assist in recommend to IUDZB, a few Brazilian reps. for membership.

We need to look into the functioning of the Zoo Society and how interactions occur among zoos.

- (10) We briefly refer to Rudy's course + the possibility for them to have biologists attend as Deonizio attended the FWS course.

Louder takes us to hotel to check in + we have a quick

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Mond

lunch. We return to office since we are scheduled to meet with The Pres. at 3 PM.

Before meeting with <sup>Jayme</sup> Santiago - Pres IBDF (meeting scheduled at 3 PM — had been organized by Ibsen) — we sat down with Ragnel + Joao to review what discussions we would have. It was clear that Joao was planning to be present + to run the show.

Jim brought up the problem of the reserve size + Joao made the list.

The meeting was late and short.

The Pres. apologized since he was ducking out of a meeting with equivalent of Congress people.

He was short, older, brief, and delegated mostly everything back to Joao. He took no notes + had no asst. or secy with him.

He agreed to look into the augmentation of the Reserve w/ The Minister and The Belgian GLTs would be organized thru State Dept (Itamaraty).



Jim made a brief speech  
thanking him and when we left,  
I wondered what we had  
accomplished. It was a very formal  
meeting, and I wondered what  
the President knew or cared about.  
Later we heard that he was planning  
to resign in about Oct. + the only  
reason he was in was to get  
IBDF functioning. Joesio +  
he both appear to be administrators.

(They are both supposed to be  
economists) - Interestingly  
Joesio was firm in wanting to get organized  
+ obtain results and he spent  
lot of time w/ us. (Even called  
the State Dept. personally the next  
day). He kept telling his people  
to develop standardized procedures +  
write them down. Other than that  
he acted like a bit of an obnoxious  
arrogant asshole.

② Finally Jeremy Mallinson needs

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to write the DN; Director saying  
① That The Int Mgmt Comm. is happy to  
assist IBDF in whatever manner to  
take action to bring the Japanese,  
Belgian + French animals under  
IBDF ownership + MC. control and  
② asking DN to appoint a rep./delegate  
to the Intern. M.C. from the DN.

After the interview we return to the  
DN office + discuss issues a bit more  
with ~~Rafael~~ Cantarelli re: the  
GHIT shipment. Jim tries to  
explain about ownership + animal records

Dinner with Jordan Wallaver + wife  
Martha and Patrick Dugan, young, +  
a Scot just hired by WWT/UCN;  
Glands to coordinate their wetlands  
programs. Is involved in development  
of plans for Pantanal which is  
Jordan's new Commission.

Jordan pleased with having a job that  
permits him to read, think + be  
creative. We eat a superb meal  
of "carne do sol"! Then back



to Jordan's home <sup>apartment</sup> for some wine  
(J. a wine connoisseur)

Later Lou Ann explains that his two children are by his first wife, who died when their youngest was about a year old. He raised his sons for several years before meeting + marrying Marta. I think some of Jordan's sensitivity + conviction + security may relate back.)

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Tues.

4 March 86

(A) MARIA TERESA

Started out the morning with a meeting with Maria Teresa. Jim + Lou Ann maintained most of the conversation in Portuguese + spoke of education, ~~the~~ conservation, zoo, wildlife management, Kelly's training course etc. Significant outcomes

(1) IBDF: N.T. was just about to testify before some judicial commission in the attorney general's office re: The corruption under the previous President IBDF.

a. She looked awful - unrecognizable - hair messy; not very attractive outfit; no make-up; no jewelry. Not at all the normally overdressed bejewelled N.T. Jim thought she was playing her image down to make her testimony more believable. A dowdy looking civil servant!

(b) She said things <sup>were</sup> so bad that she wasn't going back into govt. for 3 years after next elections. Implied that next elections would → govt change.



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Tues.

② CESP: Her current job is as administrator of CESP's Brasilia office. CESP produces 40% of Brazil's power (also own zoo — apparently, near São Paulo). She is acting as a lobbyist for CESP and <sup>several</sup> other private power companies (4 other companies). CESP only energy company which is a member of IUCN.

③ She never received my invitation to join in on the book by co-authoring a chapter with RASH & Coimbra. I can go back & rethink the invite.

④ Her assistant Sandra Chanty has been with her since CESP/São Paulo days → IBDF + → CESP/Brasilia. Knows Nelly from Sorocaba.

⑤ She is willing to stay on the Intern. MC for G+LT. Says she has lots of time since her asst. does so much good work.

⑥ M.T. big luck is that she is about to incorporate & develop a Conservation Foundation. Provides us w/ a copy of initial document — draft of incorporation. Her Fdn. to lobby in Brasilia & raise big bucks to initiate & pursue research. She's thinking of buying land like Nature Conservancy — or having Nature Conservancy buy land thru her Fdn.

She's talking about big research projects in Pantanal; conservation education et al. Says that FBCN is old & distinguished organization w/ old & distinguished personnel. Thér is about to step down as Pres. & there is no one w/ charisma to continue work w/ any force. Thus M.T. will be competing directly w/ FBCN. But they have never raised funds. They tend to act as a conduit for funds other people raise.

She also talks about collaborative projects with all her supporters, eg Jordan & Marleszi. Going to support international Congress



on the Pantanal. Obviously his  
persist. Jordan heads a  
commission on wetlands + the  
Pantanal. M.T. will collaborate.

- (7) MT says that Paulo  
nogueira Neto will certainly  
leave SEMA in the autumn when  
all the ministries change over  
heads. Apparently he finally  
has a govt. he cannot work w/.  
"He's been head of SEMA for 11  
years + is tired."

maria Teresa needed to get to the  
Attorney General's office + gave  
us a ride to the Zoo.

- (B) ZOO - Entered; Looked for Director;  
Person who seemed to be  
Director turned us over to  
Veterinarian + Biologist.  
We later find out that the  
Director is recently appointed  
but has been with the zoo for  
28 years + started out as a sweeper.

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Tues

The biologist is young + speaks  
fractional English.

Jim translates for me.

- (1) We offer education exchanges
- (2) Collaborative projects.
- (3) Training in animal mgmt +  
vet. medicine.
- (4) whatever else  
Lennann has batches of stuff she turns  
over.

The Director sits in for a while +  
then leaves. The biologist opens  
up and is totally demoralized.

- (1) Zoo run by Zoo-botanical garden  
under Ministry of Agric. of city.
- (2) They have no budget + no  
access to money.
- (3) No leeway to do extra projects.

Everytime we make a suggestion  
they respond with "Yes, but ..."  
It gets frustrating because it's as  
though we cannot get thru to them.



The zoo itself has lots of land  
+ some very nice enclosures,  
several islands with

*Ateles* / *Cebus* / *Saimiri* / *Nasua*  
in a large man-made lake.  
lots of large bird enclosures + a  
couple of good caiman / alligator  
enclosures.

They have a family group of 6  
*Pteronura* + have already sent  
some to Germany. Also  
breeding *Myiarchus americana*.

Other few mammals, especially  
South American, since at the time they  
had planned to have only  
Brazilian fauna, they were  
pressured into bringing lions / giraffes  
and some other African wildlife.

Really sad state is that the state  
govt just took a run down  
favela in the zoo grounds +

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made it presentable so that  
there are 200,000 people living  
in favelas within the zoo grounds!

Apparently they were caught  
killing + eating Capybara, as well  
as some other zoo species.

The "governor" of Brazilia decided  
on making the zoo habitable for  
people — a terrible decision!

③ Milton Magalhães de Mello met us  
at the zoo + dragged us, ~~unknowingly~~  
unknowingly to his primate  
center (his fazenda).

Milton's primate center  
has 3 tiers of Camba-like  
cage with *Callithrix jacchus* +  
*C. penicillata*.

Narrow cages but OK for *Callithrix*  
unfortunately he had an outbreak  
of diarrhea the previous day +  
didn't know whether he had  
some disease or just bad  
mangos.

He has plans to ~~the~~ build a



building for breeding Aotus +  
doing malarial research.

Some gossip - ① Doris, his student, who  
I liked very much, but who  
would never let anyone into  
her study area has gone political  
and xenophobic. Milton is  
rather angry with her.

② Carlos Alves after being kicked  
out of IBDF apparently  
worked at The Brasilia Zoo +  
was sent to Jersey for training.  
According to Milton he  
smoked dope a bit too frequently,  
caused a ruckus, + got ~~it~~ <  
kicked out.

Had lunch w/ Milton at Pizza  
Place + talked about Rudy's  
course to come + the one  
past.

Milton said that Celso  
Vale's section

Tues  
March 4

was totally disorganized + the  
students complained ~~bitterly~~  
bitterly, while praising Jern +  
The Pico das Antas crowd's contribution.

Milton hates Jordan because he  
wouldn't give him permission to  
bring in masses of Aotus without having  
decent housing.

Milton organizing The 1986  
Internal Primate Congr. in  
Brasilia! Wants me to organize  
symposium on reintroduction.

Milton drops us at IBDF @ 1 hr  
late, but no one there anyway.

③ ~~at~~  
IBDF

We spend about 3 hours finally  
working on a document indicating  
IBDF's understanding of the GHLTs. +  
The Int. M.C.

It starts slow + with Joesio  
again, but we eventually reach



good agreement.

Jim Lou Ann + I have dinner at a place that Jordan wanted to go to before.

Talk at length w/ Ivo re: his coming to NZP for training.

Possible funding sources

FWS; (WPTI); WWF.

SF Short-term Visitor Program  
How about AAZPA ???

World Study - >

Wed AM

Wed AM 5 March -

Catch 0745 flight for Belo - late + slow. Finally arrive @ 1030 + head for Bastos house. Jim + Lou Ann have a list of stones to buy which is outrageous + I end up buying much more than I want or need.

We then hit the folklore Palace + I spend another \$125 (\$760 at Bastos).

Jim + Lou Ann then have appointment with faculty from Vigosa who are trying desperately to buy both of them.

We get to airport in time for flight after jointly dropping \$1600 with Bastos and then fly to Rio to Novo Mundo.

Exhausted.



Thursday

6 Mar 86 -

(A) US Consulate

First thing hit the American Consulate to see our new buddy Ev. He didn't improve, with age at all.

First acted as tho we didn't have any appt. Then noted that it was on his calendar.

Said that they could continue supporting the project at the current rate.

Came out with a few specialities of his:

- ① Has been everywhere in Brazil + hates to go to the same place twice
- ② Thinks monkeys are dirty.
- ③ His in-laws have land up near GLT country - probably Cabo Frio.

(B) IBDF -

Met Dionizio -

Big crisis w/ Laurenz



CNPq application. He forgot to sign it.

For Lourdes noticed it in Brasilia when Dionisio brought it up. So they desperately tried to get hold of Laurence to arrange a meet.

Apparently they were only able to find Laurence at 2AM thru his ex-girlfriend. Since he never told anyone where he stayed with his aunt.

They arranged for him to meet Dionisio at airport. Which worked.

What didn't work was some bizarre arrangement where Dionisio gave the documents to someone flying to Brasilia

to leave at some counter, with the idea that Lourdes would pick them up & deliver them to CNPq. Unfortunately the man never showed & so of life off from Rio for me, & never found out if Laurence got his application in under the deadline.

At IBDF, we had an interview with a reporter re: GLTs.

Finished our business with Dionisio & headed for Berant's for lunch.

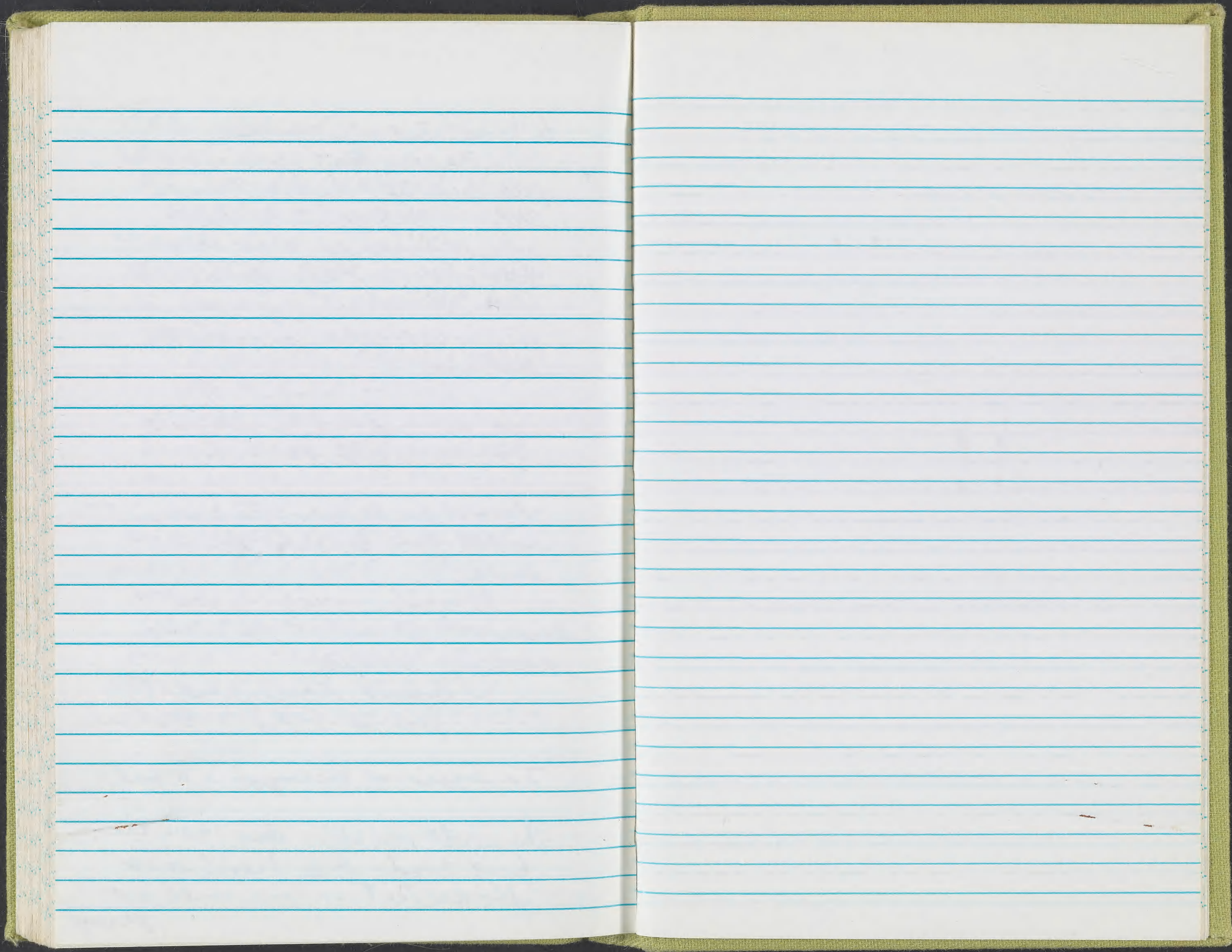
As usual, incredibly good lunch with Berant & too many maracuya batidas!

Berant's monkeys are all gone to CPRT & São Paulo.

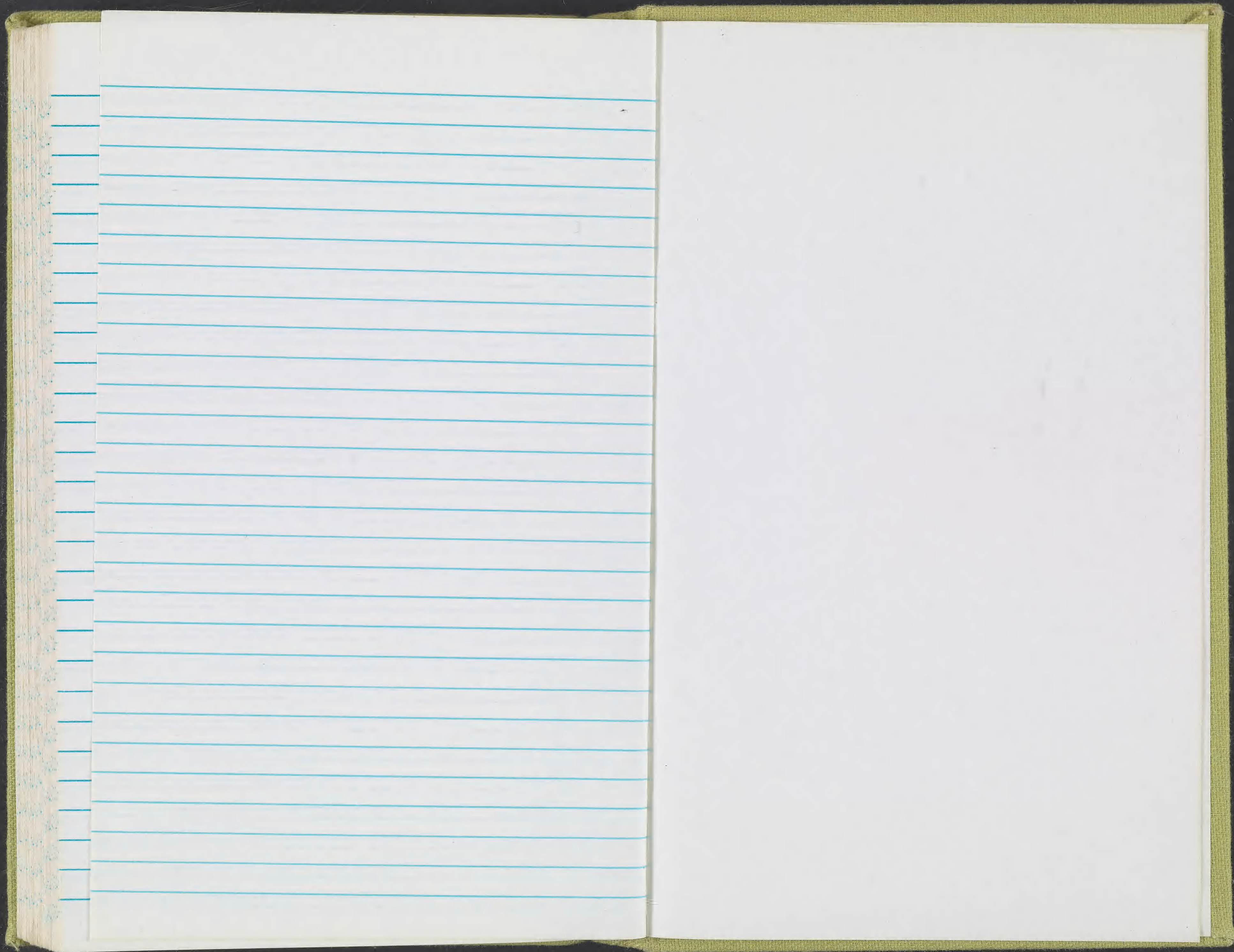
To dinner at Dionisio's & a bath.

The worst rain storm I've ever seen first hand. Arda Brasil was so flooded that no cars could get through.











Itamaraty =  
State Dept.



